

form attached to a paper copy of the sequences. It is respectfully requested that the sequence listings be entered into the file.

Please cancel claims 1-3.

Please add the following claims:

8. A bacteria transformed with a plasmid which contains genes cssA and cssB, all of the cssC and DNA sequence of cssD which encodes at least 802 amino acids (at least 2406 base pairs), an origin of replication, a Lac promotor, and a kanamycin resistance gene wherein said bacteria expresses both CS6A and CS6B proteins.
9. A composition of matter comprising bacteria of claim 8 in a pharmaceutically acceptable carrier.
10. A composition of matter comprising the bacteria of claim 9 wherein the carrier is a carbonated beverage.
11. A bacteria of claim 8 containing the sequence:

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1  AAGCTTGTA  CCAGTTGATA  AAAATATATC  ACGCTGGGAA  TGACGTGATG
51  TATATACGGA  GCAGCTATGT  CGGAACAGAT  ATTTTCCTAT  CGGTATGCGT
101 TGTGAGTAAG  CGTAAAGCCA  ATGCTGTCTG  TAACTCCTGA  TCCTTGCAGA
151 CTAAATTAGA  GCTCCTTCTA  AATTAGACGG  ATGGATAAAC  CTACAGACTG
201 GCGCTCTGGG  TCTCGCCGGA  TATTTTCTAA  TGAATTTAAG  CTTCATATGG
251 TTGAACTGGC  TTCGAAACCA  AATGCCAATG  TCGCACAAC  GGCTCGGGAA
301 CATGGCGTTG  ATAACAACCT  GATTTTTTAA  TAGCTACGCC  TCTGGCAAAG
351 AGAAGGACGT  ATTTCTCGTA  GAATGCCTCC  AACTATTGTA  GGCCCTACAG
401 TACCACTGAG  GTAGCCTGAA  TTTAAAGCCG  AAGCGGTCAG  AACTGTTCTT
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451 GGTGTGAACG TAGCACTCAC CAATAAAAGC ATCAATACGG TGCTCTGTTG
 501 ACACATTACG AATGTTATGT ATACAATAAA AATGATTATA GCAATATTAA
 551 TGGTGTTATA TGAAGAAAAC AATTGGTTTA ATTCTAATTC TTGCTTCATT
 601 CGGCAGCCAT GCCAGAACAG AAATAGCGAC TAAAAACTTC CCAGTATCAA
 651 CGACTATTTT AAAAAGTTTT TTTGCACCTG AACCACGAAT ACAGCCTTCT
 701 TTTGGTGAAA ATGTTGGAAA GGAAGGAGCT TTATTATTTA GTGTGAACTT
 751 AACTGTTCCCT GAAAATGTAT CCCAGGTAAC GGTCTACCCT GTTTATGATG
 801 AAGATTATGG GTTAGGACGA CTAGTAAATA CCGCTGATGC TTCCCAATCA
 851 ATAATCTACC AGATTGTTGA TGAGAAAGGG AAAAAAATGT TAAAAGATCA
 901 TGGTGCAGAG GTTACACCTA ATCAACAAAT AACTTTTAAA GCGCTGAATT
 951 ATACTAGCGG GGAAAAAAA ATATCTCCTG GAATATATAA CGATCAGGTT
 1001 ATGGTTGGTT ACTATGTAAA CTAAATACTG GAAGTATGAT TATGTTGAAA
 1051 AAAATTATTT CGGCTATTGC ATTAATTGCA GGAAGTTCCG GAGTGGTAAA
 1101 TGCAGGAAAC TGGCAATATA AATCTCTGGA TGTAATGTAA AATATTGAGC
 1151 AAAATTTTAT TCCAGATATT GATTCCGCTG TTCGTATAAT ACCTGTTAAT
 1201 TACGATTCGG ACCCGAAACT GGATTCACAG TTATATACGG TTGAGATGAC
 1251 GATCCCTGCA GGTGTAAGCG CAGTTAAAAT CGCACCAACA GATAGTCTGA
 1301 CATCTTCTGG ACAGCAGATC GGAAAGCTGG TTAATGTAAA CAATCCAGAT
 1351 CAAAATATGA ATTATTATAT CAGAAAGGAT TCTGGCGCTG GTAACTTTAT
 1401 GGCAGGACAA AAAGGATCCT TTCCTGTCAA AGAGAATACG TCATACACAT
 1451 TCTCAGCAAT TTATACTGGT GGCGAATACC CTAATAGCGG ATATTCGTCT
 1501 GGTACTTATG CAGGAAATTT GACTGTATCA TTTTACAGCA ATTAAAAAAA
 1551 GGCCGCATTA TTGCGGCCAT TGACGATACT GCTAGGCAAA AATATGAAAT
 1601 CAAAGTTAAT TATACTATTG ACGTTAGTGC CATTTTCATC TTTTCAACA
 1651 GGAAATAATT TTGAAATAAA TAAGACACGA GTAATTTACT CTGACAGCAC
 1701 ACCATCAGTT CAAATATCAA ATAATAAAGC ATATCCTTTA ATTATTCAAA
 1751 GCAATGTATG GGATGAAAGC AATAATAAAA ATCATGACTT TATAGCAACA

1801 CCACCGATTT TTAAAATGGA AAGTGAAAGT CGGAATATAA TAAAAATAAT
1851 TAAAACAACCT ATTAATTTGC CGGACTCTCA GGAAAGTATG AGATGGTTAT
1901 GTATTGAATC AATGCCACCA ATAGAAAAAA GTACTAAAAT AAACAGAAAA
1951 GAAGGAAGGA CAGACAGTAT TAATATCAGC ATTCGGGGGT GCATTAAACT
2001 GATATATCGA CCTGCCAGTG TTCCGTCTCC TGTTTTTAAT AATATAGTAG
2051 AAAAATTAAA ATGGCATAAA AATGGAAAGT ATCTTGTATT AAAAAATAAT
2101 ACACCCTATT ACATTAGCTT TTCTGAGGTT TTTTTTGATT CAGATAAAGT
2151 AAACAATGCA AAAGATATTT TATATGTAAA ACCATACTCA GAGAAGAAAA
2201 TAGATATCAG CAACAGAATA ATAAAAAAA TCAAATGGGC TATGATTGAT
2251 GATGCTGGCG CAAAACAAA ACTTTATGAA TCAATTTTAT AAAAAATCTC
2301 ATTACAGTAT ACAAAAACAT CAGATTACAG GCTTGCTTTT TTTGCTATTT
2351 ATATATCCTT TCTCAACCTC ATATGGAAAT GAACAATTTA GTTTTGACTC
2401 ACGATTCCTA CCATCAGGTT ATAATTACTC TTAAATAGT AACTTACCTC
2451 CTGAAGGTGA GTATCTGGTT GATATTTATA TTAACAAAAT AAAAAAGGAG
2501 TCCGCGATTA TTCCTTTTTT TATAAAAGGA AATAAACTTG TACCATGTTT
2551 ATCAAAAGAA AAAATTTTAT CTTTGGGTAT CAACATTAAT AATAACGACA
2601 ACACAGAGTG TGTAGAAACA AGTAAGGCAG GTATTAGTAA TATCAGCTTT
2651 GAGTTTAGCT CTCTTCGTTT GTTTATTGCT GTACCGAAAA ATCTTCTGTC
2701 TGAGATTGAT AAAATATCAT CAAAGGATAT AGATAACGGG ATTCATGCTT
2751 TATTTTTTAA TTATCAAGTA AATACAAGGC TAGCCAATAA TAAAAATCGT
2801 TATGATTACA TTTCTGTTTC ACCAAATATA AATTATTTTT CATGGCGGTT
2851 GCGTAATCTT TTTGAATTTA ACCAAAACAA CGATGAAAAA ACATGGGAAA
2901 GAAACTACAC TTATCTAGAA AAAAGTTTTT ATGATAAAAA GCTAAACTTA
2951 GTCGTTGGTG AAAGTTATAC GAATTCAAAT GTTTATAATA ACTACTCTTT
3001 TACTGGTATT TCAGTTTCTA CAGATACAGA TATGTATACG CCAAGTGAAA
3051 TCGATTATAC ACCAGAAATT CATGGAGTGG CTGATTCAGA CTCTCAGATT
3101 ATTGTCAGGC AAGGCAACAC CATTATCATT AATGAAAGTG TTCCAGCCGG

3151 ACCGTTCTCA TTTCCAATAA CCAATCTCAT GTATACTGGG GGGCAACTTA
3201 ATGTGGAGAT AACAGATATT TATGGAAATA AAAACAATA TACTGTCAAT
3251 AATTCCTCTC TTCCTGTTAT GAGAAAAGCG GGACTAATGG TATATAATTT
3301 TATATCTGGG AAATTAACAA AAAAAAATAG TGAGGATGGT GATTTTTTTA
3351 CTCAAGGTGA TATTAACTAC GGTACTCACT ATAACAGCAC ACTATTCGGT
3401 GGATATCAGT TTAGTAAAAA TTATTTTAAC TTATCTACTG GTATAGGCAC
3451 TGATCTGGGA TTTTCTGGAG CATGGCTACT ACACGTTAGC AGAAGTAATT
3501 TTAAGAATAA AAATGGATAT AATATTAATC TACAACAAAA CACTCAGTTA
3551 AGACCATTC A TGCCGGGGT TAATTTTCGAT TACGCATACA GAAAAAAG
3601 GTATGTGGAA CTTTCCGACA TTGGCTGGCA TGGTAATTTA TATAATCAAC
3651 TTAAAAATAG TTTTCTTTA TCCTTGTC AAATCATTGAA TAAATACGGA
3701 AATTTCTCAC TTGATTATAA CAAAATGAAA TACTGGGATA ATGCGTATGA
3751 TAGTAACTCA ATGTCGATTC GTTATTTTTT TAAATTCATG CGAGCAATGA
3801 TTACAACAAA TTGTCTTTA AATAAATATC AATCTTATGA AAAAAAGAT
3851 AAAAGATTTA GTATTAATAT ATCATTGCCT TTAACCAAAG ATTACGGGCA
3901 CATATCTTCA AACTATTCAT TTTCCAATGC AAATACAGGA ACGGCAACCA
3951 GTTCTGTAGG CTTAAACGGT AGTTTTTTTA ATGACGCAAG ATTAAACTGG
4001 AACATTCAGC AGAACAGAAC GACCCGTAAC AATGGATATA CTGATAATAC
4051 CAGTTACATA GCAACCAGCT ATGCCTCTCC CTATGGCGTT TTTACTGGTT
4101 CATATTCAGG ATCGAACAAG TATTCAAGCC AGTTTTATTC TGCATCGGGA
4151 GGTATTGTTT TGCATAGCGA TGGCGTAGCT TTTACTCAA AAGCCGGAGA
4201 TACCTCTGCT CTTGTCCGTA TTGATAATAT TTCTGATATA AAAATTGGTA
4251 AACTCCTGG TGTTTATACT GGGTATAATG GTTTTGCTTT AATTCCTCAT
4301 CTTCAGCCGT TCAAAAAAAA CACCATTTTA ATTAATGATA AAGGAATTCC
4351 AGACGGTATT ACTCTTGCTA ATATAAAAAA ACAAGTTATC CCATCACGAG
4401 GAGCTATTGT TAAAGTAAAA TTTGATGCTA AAAAAGGCAA TGACATTTTG
4451 TTTAAGCTTA CAACTAAAGA TGGAAAAACG CCCCATTAG GAGCTATAGC

4501 CCATGAAAAA AATGGAAAAC AGATTAATAC GGGTATCGTT GACGATGATG
4551 GTATGCTTTA TATGTCTGGA TTATCAGGGA CAGGGATTAT TAATGTAACA
4601 TGAATGGAA AAGTCTGTTC ATTCCTTTT TCAGAAAAAG ATATATCTAG
4651 CAAACAATTA TCTGTTGTAA ATAAACAATG TTAGGTAGTG CATCCAATTA
4701 GTAGAACATG TGTTTTTCGA TAAACGCTCC GATCTCTTTT TCGTGGATCT
4751 CAACTGAGCG TGAGAAGCAG ATTGTTTTAC GAGCCAACCG CTTAATGCGG
4801 GTGCGTAGCG TCAGATTATT ACGCTCAATG CGTTGGGTGA ATATTTTGCC
4851 GGTCAGATGC TTATTCTTCG GTACC (Sequence ID No #1)

12. A protein expressed by the bacteria of claim 8 containing the sequence:

R T E I A T K N F P V S T T I S K S F F A
P E P R I Q P S F G E N V G K E G A L L F
S V N L T V P E N V S Q V T V Y P V Y D E
D Y G L G R L V N T A D A S Q S I I Y Q I
V D E K G K K M L K D H G A E V T P N Q Q
I T F K A L N Y T S G E K K I S P G I Y N
D Q V M V G Y Y V N. (SEQ. ID No. 9)

13. A protein expressed by the bacteria of claim 8 containing the sequence:

GNWQYKSLDV NVNIEQNFIP DIDSAVRIIP VNYDSDPKLD SQLYTVEMTI
PAGVSAVKIA PTDSLTSAGQ QIGKLVNINN PDQNMNYYIR KDSGAGNFMA
GQKGSFPVKE NTSYTFSAIY TGGEYPNSGY SSGTYAGNLT VSFYSN.

(SEQ. ID No. 10)

Response to Restriction

Applicant hereby requests the examination of the claims of

the newly added claims drawn to bacteria, which do not fall into any of the groups as presently identified, but correspond more closely to the claims under consideration in the final action of the prior application.

Respectfully submitted,

A handwritten signature in cursive script, appearing to read "Glenna Hendricks".

Glenna Hendricks, Reg. No. 32,535